OCT 2 0 2005 STATEMENT BY APPLICANT

3382-65133-01		
10/642,550		
August 15, 2003		
Thumpudi		
2641		
not yet assigned		

## **U.S. PATENT DOCUMENTS**

Copies of U.S. Patent documents do not need to be provided, unless requested by the Patent and Trademark Office. For patents, provide the patent number and the issue date. For published U.S. applications, provide the publication number and the publication date. For unpublished pending patent applications, provide the application number and the filing date.

Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee Fuchigama et al.	
/JR/		5,079,547	January 7, 1992		
/JR/		5,260,980	November 9, 1993	Akagiri et al.	
/JR/		5,388,181	February 7, 1995	Anderson et al.	
/JR/	<u>.</u> ".	5,539,829	July 23, 1996	Lokhoff et al.	
/JR/		5,627,938	May 6, 1997	Johnston, James D.	
/JR/		5,661,755	August 26, 1997	Van De Kerkhof et al.	
/JR/		5,686,964 November 11, 1997 Tabatabai e		Tabatabai et al.	
/JR/		5,956,674	September 21, 1999	Smyth et al.	
/JR/		6,029,126	February 22, 2000	Malvar	
/JR/		6,058,362	May 2, 2000	Malvar	
/JR/		6,115,688	September 5, 2000	Brandenburg et al.	
/JR/		6,182,034	January 30, 2001	Malvar	
/JR/		6,240,380	May 29, 2001	Malvar	
/JR/		6,341,165	January 22, 2002	Gbur et al.	
/JR/		6,766,293	July 20, 2004	Herre et al.	
/JR/		6,771,777	August 3, 2004 Gbur et al.		

EXAMINER SIGNATURE:	/Justin Rider/	DATE CONSIDERED:	07/30/2007

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Attorney Docket Number	3382-65133-01
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Filing Date	August 15, 2003
First Named Inventor	Thumpudi
Art Unit	2641
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## **U.S. PATENT DOCUMENTS**

Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
/JR/		6,934,677	August 23, 2005	Chen et al.
/JR/ 20020143556 October 3, 2002		October 3, 2002	Kadatch	
/JR/		20030236580	December 25, 2003	Wilson et al.
/JR/		20040044527	March 4, 2004	Thumpudi et al.
/JR/		20050065780	March 24, 2005	Wiser et al.

## **FOREIGN PATENT DOCUMENTS**

Examiner's Initials*	Cite No. (optional)	Country	Number	Publication Date	Name of Applicant or Patentee	
/JR/		Europe	0910927	April 28, 1999	Gbur et al.	
/JR/		Europe	0931386	July 28, 1999	Herre et al.	
Examiner's Initials*	Cite No. (optional)	OTHER DOCUMENTS				
/JR/		Brandenburg, "ASPEC CODING", AES 10th International Conference, pp. 81-90 (1991).				
/JR/		"ISO/IEC 13818-7, Information Technology Generic Coding of Moving Pictures and Associated Audio Information Part 7: Advanced Audio Coding (AAC), Technical Corrigendum 1" 22 pp. (1998).				
/JR/		Jesteadt et al., "Forward Masking as a Function of Frequency, Masker Level, and Signal Delay," Journal of Acoustical Society of America, 71:950-962 (1982).				
/JR/		Lutfi, "Additivity of Simultaneous Masking," Journal of Acoustic Society of America, 73:262-267 (1983).				

EXAMINER	EXAMINER	// C D' /	DATE	
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Examiner's Initials*	Cite No. (optional)	Number	Issue Date	Name of Applicant or Patentee
/JR/		5,524,054	06-1996	Spille
/JR/	-	5,629,780	05-1997	Watson
/JR/		5,661,823	08-1997	Yamauchi et al.
/JR/		5,682,152	10-1997	Wang et al.
/JR/		5,701,346	12-1997	Herre et al.
/JR/		5,812,971	09-1998	Herre
/JR/		5,835,030	11-1998	Tsutsui et al.
/JR/		5,974,380	10-1999	Smyth et al.
/JR/	6.041.295 03-200		03-2000	Hinderks
/JR/		6,064,954	05-2000	Cohen et al.
/JR/		6,249,614	06-2001	Kolesnik et al.
/JR/		6,393,392	05-2002	Minde
/JR/		6,445,739	09-2002	Shen et al.
/JR/		6,658,162	12-2003	Zeng et al.
/JR/		6,738,074	05-2004	Rao et al.

	DATE CONSIDERED: 04/02/2007
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FOREIGN PATENT DOCUMENTS							
Examiner's Initials*	Cite No. (optional)	Country	Number	Publication Date	Name of Applicant or Patentee		
/JR/		Europe	EP 0597649	05-1994	Suzuki		
/JR/		Europe	EP 0669724	08-1995	Akagiri		
/JR/		WIPO	WO 99/43110	08-1999	Absar et al.		
Examiner's Initials*	Cite No. (optional)			HER DOCUMENTS			
/JR/		Technology, Inc., 1	2/2/2002, 15 pages.		2000-2002 Berkeley Design		
/JR/		Society, Audio Eng	ineering Society, Vo	ol. 45, No. 10, pages 78			
/JR/		Audio Coding, 1999	9, 12 pages.		onal Conference on High Quality		
JR/			Gibson et al., Digital Compression for Multimedia, Title Page, Contents, "Chapter 8: Frequency Domain Speech and Audio Coding Standards," Morgan Kaufman Publishers, Inc., pp. 263-290				
·/JR/			Gillespie et al., "Speech dereverberation via maximum-kurtosis subband adaptive filtering," Proc. IEEE ICASSP, 2001, pp. 3701-3704.				
/JR/			Herre, "From Joint Stereo to Spatial Audio Coding - Recent Progress and Standardization," Proc. Of the 7th Int. Conference on Digital Audio Effects (DAFx'04), 2004, pages 157-162.				
/JR/		Herre et al., "Intensity Stereo Coding," presented at AES 96th Convention, 1994, 11 pages.					
/JR/		audio information -	ISO/IEC 13818-7, Information technology - Generic coding of moving pictures and associated audio information - Part 7: Advanced Audio Coding (AAC), 150 pp. (1997).				
/JR/		Algorithms," SIAM	Püschel et al., "The Algebraic Approach to the Discrete Cosine and Sine Transforms and their Fast Algorithms," SIAM Journal of Computing 2003, Vol. 32, No. 5, pp. 1280-1316.				
JR/		3 pages.	"Radio Engineering," authored by KPR i-Services, Inc., printed from internet on 12/13/2005,				
/JR/		Schroeder, "'Colorless' Artificial Reverberation," presented at Audio Engineering Society 12th Annual Meeting, 1960, 18 pages.					
/JR/		Society 13th Annua	Schroeder, "Natural Sounding Artificial Reverberation," presented at the Audio Engineering Society 13th Annual Meeting, 1961, 18 pages.				
UDI		Search Report for European Patent Application No. 03 020 110.7.					

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DHB:vjs 08/09/06 3382-65133-01 558927.doc 300282.02

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First Named Inventor	Thumpudi
Art Unit	2641
Examiner Name	Not yet assigned

Examiner's Initials*	Cite No. (optional)	OTHER DOCUMENTS
/JR/		Search Report for European Patent Application No. 03 020 111.5.
/JR/		"Smart Project - Algebraic Theorgy of Signal Processing,"  http://www.ece.cmu.edu/~smart/papers/dttaglo.html, printed from internet on 6/30/2006, 2 pages.
/JR/		Smith, "Physical Audio Signal Processing: for Virtual Musical Instruments and Digital Audio Effects," (Global Contents - 13 pages, Allpass Filters - 2 pages, Schroeder Allpass Sections - 2 pages, and A Schroeder Reverberator called JCRev - 2 pages) of online book at http://ccrma.stanford.edu/~jos/pasp/, Center for Computer Research in Music and Acoustics (CCRMA), Stanford University, printed from internet on 12/20/2005, 19 pages.

EXAMINER /Justin Rider/ DATE CONSIDERED: 04/02/2007

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INFORMATION DESCLOSURE STATEMENT

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Examiner Name	Not yet assigned	

## **U.S. PATENT DOCUMENTS**

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Examiner's Initials*	Number	Publication Date	Name of Applicant or Patentee
/JR/	5,684,920	11-1997	Iwakami et al.
/JR/	6,370,502	04-2002	Wu et al.
-			

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PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO. Rousseau.830001.US0

SERIAL NO.

**INFORMATION DISCLOSURE** STATEMENT BY APPLICANT

(Use several sheets if necessary)

APPLICANT: Leslie Rousseau

FILING DATE December 10, 2002 GROUP

#### **U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/JR/	426,583	4/29/1890	Davis, M.M.			
/JR/	578,322	03/09/1897	Ferrell, L.C.			
/JR/	4,641,264	02/03/1987	Nitta et al.			
/JR/	4,706,212	11/10/1987	Toma			
/JR/	4,769,846	09/06/1988	Simmons			
/JR/	4,980,829	12/25/1990	Okajima et al.			
/JR/	4,984,177	01/08/1991	Rondel et al.			
/JR/	5,175,793	12/29/1992	Sakamoto et al.			
/JR/	5,181,256	01/19/1993	Kamiya			
/JR/	5,384,701	01/24/1995	Stentiford et al.			
/JR/	5,634,086	05/27/1997	Rtischev et al.			
/JR/	5,696,980	12/09/1997	Brew			
/JR/	5,715,369	02/03/1998	Spoltman et al.			
/JR/	5,724,526	03/03/1998	Kunita			
/JR/	5,749,072	05/05/1998	Kazurkiewicz et al.			
/JR/	5,802,467	09/01/1998	Salazar et al.			
/JR/	6,006,185	12/21/1999	Immarco			
/JR/	6,112,103	08/29/2000	Pathuff			
/JR/	6,173,250	01/09/2001	Jong			
/JR/	6,173,250	01/09/2001	Jong			
/JR/	6,175,819	01/16/2001	Alstine, Van			
/JR/	6,263,202	7/17/2001	Kato et al.			,
/JR/	6,339,706	01/15/2002	Tillgren et al.			

### FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT	PUBLISHED				TRANSL	ATION
	<u> </u>	NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
<u> </u>	ــــــــــــــــــــــــــــــــــــــ	OTHER BOOM	ITAITO (In alterdia a	Austra Tinia Dan	5			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

/Justin Rider/ **EXAMINER** DATE CONSIDERED 04/01/2007

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				Attorn	ey Docket Number	3382-65133	
				Applic	ation Number	Not yet assigned	
INFOR	MATION	N DISCLOSURE STATE	MENT	Filing Date First Named Inventor		August 15, 2003	
2.1.2		SY APPLICANT				Thumpudi et al.	
				Art U	nit	Not yet assigned	
				Exami	iner Name	Not yet assigned	
		U.S. PA	ATENT D	OCUM	ENTS		
Examiner's Initials*	Cite No. (optional)	Number	Dat	te		Name	
/JR/		5,845,243	12.01	.98	Smart et al.		
/JR/		5,995,151	11.30	.99	Naveen et al.		
/JR/		6,115,689	09.05	.00	Malvar		
FOREIGN PATENT  Examiner's Cite No. (optional) Number Date							
Examiner's Initials*	Cite No.	ОТ	HER DO	CUMEN	TS		
/JR/		Yang et al., "An Inter-Chi Multichannel Audio Com pp. (September 2000).					
/JR/		Wang et al., "A Multichar Removal," in AES 110 <sup>th</sup> C	Convention	, Amster	rdam, the Netherland	ds, 6pp. (May 2001).	
/JR/		Yang et al., "Adaptive Karhunen-Loeve Transform for Enhanced Multichannel Audio Coding," Proc. SPIE Vol. 4475, 13 pp., Mathematics of Data/Image Coding, Compression, and Encryption IV San Diego, CA. (July 29 - August 3, 2001).					
/JR/		Cover page, pp. 745-751	(1992).			1 Signal Processing Series,	
/JR/			MPEG2 Audio for DVD: the Compromise Choice," 5 pp. (October 1996).				
/JR/		Edler et al., "Perceptual Audio Coding Using a Time-Varying Linear Pre- and Post- Filter," in AES 109th Convention, Los Angeles, California, 12 pp. (September 2000).					

EXAMINER /Justin Rider/ SIGNATURE:	DATE CONSIDERED: 07/30/2007	
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		Attorney Docket Number	3382-65133
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INFORMA	ATION DISCLOSURE STATEMENT	Filing Date	August 15, 2003
	BY APPLICANT	First Named Inventor	Thumpudi et al.
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/JR/	"ISO/IEC 13818-7, Information Tec Associated Audio Information Par (1997).	rt 7: Advanced Audio Codia	of Moving Pictures and ng (AAC)," 174 pp.
/JR/	Wang et al., "EE225a Lecture 13: K Transform," Department of EECS, U 2002).	Karhunen Loève Transform University of California at B	and Discrete Cosine erkley, 10 pp. (March )
/JR/	Meares, D.J., "Matrixed Surround Seaudio Engineering Society, Vol. 46,	No. 4, 13 pp. (April 1998).	L
/JR/	Stuart et al., "Lossless Compression <i>Tokyo</i> , 4 pp. (1999).	for DVD-Audio," in AES 9	h Regional Convention
/JR/	Kuo et al., "A Study of Why Cross C Audio Coding," IEEE Signal Proces	sing Letters, Vol. 8, No. 9	3 nn (Sentember 2001)
/JR/	Van Assche et al., "Lossless Compre Decorrelation Technique," <i>Proc. SP</i> , pp. (1998).	ession of Pre-Press Image II	sing a Novel Color
/JR/	Davis, "The AC-3 Multichannel Cod World Wide Web on August 15, 200	)2) <u>.</u>	
/JR/	Gibson et al., <u>Digital Compression for</u> Frequency Domain Coding," Morgan (1998).	or Multimedia, Title Page, C n Kaufman Publishers, Inc.,	pp. iii, v-xi, and 227-262
/JR/	Herley et al., "Tilings of the Time-Fr Bases and Fast Tiling Algorithms," I 12, pp. 3341-59 (1993).	EEE Transactions on Signa	l Processing, Vol. 41, No.
/JR/	"ISO/IEC 11172-3, Information Tech Audio for Digital Storage Media at U (1993).	Jp to About 1.5 Mbit/s Pa	rt 3: Audio," 154 pp.
/JR/	ITU, Recommendation ITU-R BS 11		
/JR/	Solari, <u>Digital Video and Audio Com</u> and Audio," McGraw-Hill, Inc., pp. i	ii, v-vi, and 187-211 (1997)	
	"ATCC C+		<del> </del>
/JR/	"ATSC Standard: Digital Audio Com 2001). Chen et al., U.S. Patent Application S		- · · <del>-</del>

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/JR/	Chen et al., U.S. Patent Application Serial No. 10/017,861, entitled, "Techniques for			
	Measurement of Perceptual Audio Quality," filed December 14, 2001.			
/JR/	Chen et al., U.S. Patent Application Serial No. 10/020,708, entitled, "Adaptive Window-			
	Size Selection in Transform Coding," filed December 14, 2001.			
/JR/	Chen et al., U.S. Patent Application Serial No. 10/016,918, entitled, "Quality			
	Improvement Techniques in an Audio Encoder," filed December 14, 2001.			
/JR/	Chen et al., U.S. Patent Application Serial No. 10/017,694, entitled, "Quality and Rate			
	Control Strategy for Digital Audio," filed December 14, 2001.			

			<del></del>
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